

Major organizational changes announced in Computer Sciences



Brooks



Sullivan



Leinius



Whitesides

Four major organizational changes have been announced by Harvey P. Carter, director of Computer Sciences.

Alfred A. Brooks and J. G. (Jerry) Sullivan have been appointed managers of two newly created organizations — Information Systems and Planning and Administration, respectively; Ronald P. Leinius was named manager of Computer Systems Support; and G. Elliott Whitesides will manage Technical Applications.

The Computer Sciences organization, composed of approximately 850

employees, is responsible for computer operations, assistance to users and support of research and development projects at all four Nuclear Division facilities.

The new Information Systems organization, managed by Brooks, provides programming and analytical support for management and information systems, graphics development and project management.

A native of Swampscott, Mass., Brooks received his bachelor's degree in chemistry from Hobart College and his PhD in physical/organic chemistry from Ohio State University. He was employed by Tennessee Eastman Company, the University of Chicago, Standard Oil of Indiana and the Upjohn Company before joining the Nuclear Division staff at ORGDP in 1956.

Brooks has served in various capacities in Computer Sciences at ORGDP and ORNL, and most recently was manager of the Computing Applications Department. He is a member of the American Chemical Society, American Physical Society, Association for Computing Machinery and the American Association for the Advancement of Science.

He and his wife, Arlene, live on Wiltshire Drive, Oak Ridge. They have two grown children.

Sullivan is responsible for Planning and Administration, which includes automatic data processing (ADP) planning and security, Computer Sciences finances, DOE/ADP liaison and related matters.

Sullivan, a native of Knoxville, received his BS degree in mathematics from the University of Tennessee. He joined the staff at ORNL in 1956, and served as an assistant director of the ORNL Mathematics Division until it became part of Computer Sciences in 1973. His most recent position was as manager of Computer Systems and Administrative Support.

(Please turn to page 8)

UNION
CARBIDE

Nuclear Division News

• Vol. 12, No. 17 August 27, 1981

United Way kickoff set September 11

One of the main promotional tools for the 1981 United Way campaign, which begins September 11, will be a 19-minute videotape program entitled "United Way: A Record of Helping."

This year's program briefly examines services provided by United Way agencies located in Oak Ridge, Knoxville and surrounding areas. The narrator is Tom Huffstetler of ORGDP.

The kickoff meeting for the 1981

campaign will be held Friday, September 11, at the Oak Ridge Civic Center. The keynote speaker will be J. Robert Stogner Jr., president of Stogner Insurance Co. He is also the president of the board of the Knox County United Way.

General chairman of this year's campaign is James A. Barker, manager of the ORGDP Employee Relations Division. He has been an employee of the Nuclear Division

since 1951. John W. Arendt, manager of planning in the Separation Systems Division at ORGDP, is the assistant chairman. He is a 36-year employee of the Nuclear Division and was the chairman of the 1975 United Way campaign. Arendt is also a board member of the Anderson County United Way.

This year's installation chairmen are Harry L. Bailey, Y-12; Janice M. Blanton, ORNL; and Carl H. (Pete) Peterson, ORGDP.



Other members of the 1981 general committee include J. Everett Rausin, general treasurer; Larry D. Jones, computer management; Mary L. Whitten, payroll auditor; John M. Shumpert, payroll coordinator; Nellie P. Ross, campaign materials; Steven L. Wyatt, general publicity; and Keith G. Kahl, Marion H. Randolph and Gary A. Riser, general staff advisors.

Matching Gifts Program starts Sept. 1

Application forms for the Corporation's new Matching Gifts Program for colleges and universities are now available at the Benefit Plans offices.

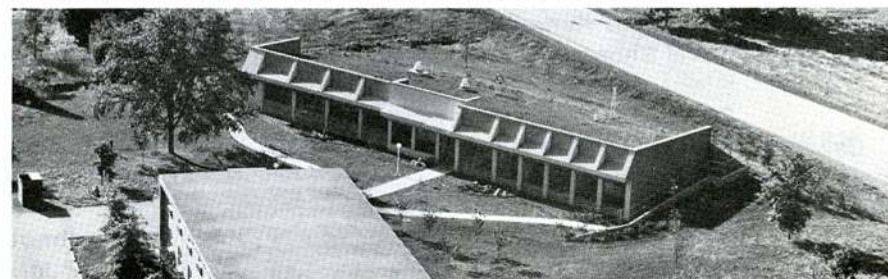
The Program officially begins on September 1, 1981, and is open to all full-time employees with at least one year of Company service credit. In any program year, the Corporation will match gifts from \$50 to \$1,000 to any degree-granting graduate and professional schools, universities, colleges and technical institutions that are located in the United States or Puerto Rico, are regionally or professionally accredited and are recognized by the IRS as tax exempt. Elementary and secondary schools are not included in the Program.

The first Program for this year will begin on September 1, 1981, and end December 1, 1981, with payments made to the institution in December. Thereafter, the Program year will begin December 2 and end December 1. Checks will be mailed to the institutions in December and June each year. Gifts of securities may be given and will be valued at the quoted market price on the day they are assigned to the eligible educational institutions.

Only contributions made on or after September 1, 1981, will be matched.

In this issue...

The new Joint Institute for Heavy Ion Research now provides office/sleeping facilities for research visitors. See page 7.



Other features:

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Aluminum can reclamation proves profitable at Paducah

A six-months old reclamation program at the Paducah Plant has resulted in a net gain of almost \$1,700 due to the participation of plant employees and the willingness of cafeteria contractor, John Corey, to purchase exclusively aluminum cans for the plant vending machines. The money derived from the sale of the cans will be donated on behalf of employees to the annual telethon for a local charity.

The project was initiated late last year and an employee committee was formed to implement the reclamation system. The group started with eight drums located throughout the plant in high traffic areas. The system now includes 15 drums and a new central container, provided by the dealer, where cans are deposited for retrieval by the aluminum buyer. This reduces labor required for can collection and disposal.

It has been estimated that employees consume over 400,000 cans of beverages a year dispensed

through plant vending machines. If all of the cans could be reclaimed, the annual scrap value could reach \$5,000. At present, the reclamation project has resulted in only 50 percent of that potential, but the volume of cans appears to be increasing. The committee is recovering approximately 160 pounds per week.

The program promises a brighter future based on the recent popularity of can reclamation nationally. Statistics show that civic groups and individual collectors earned over \$400 million in the last eight years by recycling cans.

At a local level, competition between buyers seems to be making its mark on the pricing schedule. Since the program began, prices have risen from 25 to 35 cents per pound. But piling up a sizeable donation for a worthwhile organization is not the only benefit of the program. It also encourages good housekeeping around plant work areas and it salvages a usable natural resource.

Anniversaries

Y-12

35 YEARS

Edward E. Turner, Guard Department; Frances B. Donahue, Superintendents Division; Lester D. Hayes, Materials Forming; and Eula H. Helton, Methodology and Environmental Measurements.

30 YEARS

William H. Sherrod Sr., Process Maintenance; Vernon C. Black, Chemical Services; Merwyn Sanders, Technical Services; Donald R. Deathridge, Materials Delivery Service; Samuel A. Gibbs, Research Services; John W. Nelson, Buildings, Grounds and Maintenance Shops; Billy B. Stone, Stores Department; Louis M. Fitzgerald, Production Radiation Testing; James H. Rowan, Quality Evaluation; Ward E. Wampler Jr., Product Certification Administration; Earl L. Price, Physical Testing Operations; Rhea E. Hester, General Can Fabrication Shop; Floyd R. Mack, Building Services; and Kenneth E. McCulley, General Shops.

20 YEARS

Calvin C. Edwards, Kenneth E. Cook, William O. Horner and Arvin S. Quist.

ORNL

35 YEARS

Leroy White, Finance and Materials; Harold E. Goeller, Chemical Technology; and Samuel S. Croft, Finance and Materials.

30 YEARS

Charles F. Baes Jr., Chemistry; Paul A. Haas, Chemical Technology;

and Bill C. Williams, Metals and Ceramics.

25 YEARS

Charles F. Vaughn Jr., Robert P. Rosenbaum, Evelyn S. Babb, Jack S. Watson, David O. Hobson and Milford Payne.

20 YEARS

Carlos B. Brooks, Walter F. Ohnesorge Jr. and Eddie Madden.

ORGDP

35 YEARS

Billye E. Lee, Finance, Materials and Services; Ernest H. Ramsey Jr., Maintenance; Harry D. Robbins, Enrichment Technology; William E. Schimmel, Auditing; William H. Sufridge, Engineering; James A. Young, Finance, Materials and Services.

30 YEARS

Eldon D. Arnold, Operations Analysis and Planning; Virginia H. Cabe, Finance, Materials and Services; Ralph B. Farrar, Technical Services; Ann H. Fowler, Engineering; Carl E. Hair, Purchasing; Walter D. Hedge, Technical Services; Herman W. Jinks, Engineering; Wayne L. Maddox, Technical Services; James A. Matson, Enrichment Technology; Earl H. Shaw, Maintenance; John W. Sumpter, Technical Services.

25 YEARS

Ruth H. Beeler; Martha J. Hovater; Joe C. Jennings; George H. Stakes.

20 YEARS

Charles E. Amos; Ralph D. Waddell Jr.



PADUCAHAN'S "CAN" CONTRIBUTION — Paducah Plant employees, like Opal Giltner, are "pitching in" thousands of aluminum beverage cans in support of a local center for handicapped children. The cans are being sold for reclamation to a local dealer and the plant's committee members say they hope to accumulate a minimum of \$2,500 by November of this year.

Engineering promotes two

Two promotions have been announced in the Engineering Division at ORGDP. Calvin C. DeVaney and Teddy L. Morton have been promoted to engineers in the engineering mechanics and mechanical engineering departments, respectively.

DeVaney, who was born in Harri-man, studied industrial engineering at the Chicago Technical College and the University of Tennessee. He served in the U.S. Army and was employed by Burlington Mills before joining the Nuclear Division in 1952.

He and his wife, Vivian, reside at 33 Shenandoah Drive, Rockwood. They have two grown children.

Morton, a native of Louisville, Tenn., joined the Nuclear Division at ORGDP in 1959. He had previously worked there as a summer student while attending Carson Newman College.

Morton transferred to Y-12 tool engineering in 1961, and, after serving two years in the U.S. Army, returned to ORGDP in 1964.



DeVaney

Morton

He currently serves as chairman of the Roane County School Board. He and his wife, Betty, live on James Ferry Road, Kingston, with their three children.

Next issue...

The next issue will be dated September 10. the deadline is September 1.

New posts told at Paducah

The Paducah Plant recently announced three organizational changes.

David M. Massey has been named a shift superintendent in the plant's Shift Operations and Plant Protection Division. Beginning with summer work in 1967, Massey had progressed from an associate engineer to an engineering section supervisor in the Plant Engineering Division prior to his new assignment. He is a graduate of the University of Missouri, Rolla with a BS in electrical engineering. He received an MBA degree from Murray State University in 1977.

Massey is a native of Paducah and is a member of the Institute of Electrical and Electronic Engineers. He is a registered professional engineer. Massey also holds membership in Tau Beta Pi and Eta Kappa Nu, national honorary engineering societies. As a shift superintendent, Massey will coordinate numerous plant emergency functions and day shift relief of shift superintendent activities. He and his wife, Sandra, reside on Brenna Drive with their two children.

K. Allen Ross has been assigned to supervision of the C-335 process building in the Cascade Operations Division. Ross joined the plant in 1952 as an operator and has held several supervisory positions in the Cascade Division. In 1975 he was appointed to the position of shift superintendent, which he will continue to hold. Prior to his employment at Union Carbide, he worked for the Magnavox Corporation. Ross has a BS in business administration from the Bowling Green College of Commerce, now a part of Western Kentucky University. He is a native of McCracken County. He and his wife, Mary Lee, have three children. The Ross family resides on Lutes Road, Paducah.



Massey

Ross



Mason

D. Chris Mason has been promoted to production planning section supervisor in the Cascade Operations Division. In his new position, Mason will be responsible for production monitoring and interplant shipment coordination. Mason earned a BS in electrical engineering from the University of Kentucky in 1974 and an MBA from Murray State University in 1981. Since joining Union Carbide in 1975 as an electrical engineer, he has also supervised the plant's C-335 process building. He and his wife, Phyllis, live on Andretta Drive, Paducah.

Chem Tech promotes Vaughn, Whatley

Victor C. Vaughn and Susan K. Whatley have been named to new supervisory positions in the Chemical Technology Division at ORNL.

Vaughn, formerly manager of hot cell operations in the division's chemical development section, has been appointed head of the engineering coordination and analysis section. A member of the Union Carbide staff since 1960, he holds a BS degree in chemistry from Stetson University as well as BS, MS and PhD degrees in chemical engineering from the Massachusetts Institute of Technology.

Vaughn and his wife, Sallie L. Kimberly, reside at 106 Gordon Road, Oak Ridge. They have three children.

Whatley has returned to the Chemical Technology Division as head of the newly established technical support section. Before her new appointment, Whatley was technical assistant to Alex Zucker, associate director of physical sciences. A



Vaughn

Whatley

member of Union Carbide's staff since 1960, Whatley holds BS and MS degrees in engineering science and mechanics from the University of Tennessee.

She and her husband, Marvin, live at 119 Oklahoma Avenue, Oak Ridge. They have six children.

Question Box

Improving long-time-employee benefits

QUESTION: If, as now appears likely, most of us will have to work at least until age 65 and probably until age 70 before retiring, has any thought been given to improving Company benefits for long-time employees? How would a proposal be received, for example, to let 20-year employees work a seven-hour day, with an additional one-hour reduction in the workday every five years?

ANSWER: During the past 18 months, 21.6 percent of the Nuclear Division's retirees have been under 60 years of age; 12.5 percent have been between 60 and 62 years of age; 43.1 percent have been between 62 and 65 years of age; 9.2 percent have retired at age 65; and 13.6 percent have worked beyond 65.

Union Carbide is not considering shortened workweeks for those employees nearing retirement.

QUESTION: A salad bar similar to the one in Alpha 2 would certainly be

a boon to employees in Alpha 5. Has any consideration been given this?

ANSWER: The canteen in Alpha 2 (9201-2), as well as the one in the Biology Division (9224), was opened to accommodate the large number of ORNL employees working in those areas who for security reasons do not have access to the main Y-12 Plant. No expansion of this type service is under consideration at this time.

Scheduled overtime

QUESTION: What is the official definition of scheduled overtime?

ANSWER: The term "scheduled overtime" is frequently used to describe work which is planned in advance and is in excess of the normal workday of eight hours or workweek of forty hours. The words "scheduled" or "planned" may be used to describe such work, but in neither case is the work to be construed as being a change to the regular established work schedule.

Division Death



Mr. Colwell

William C. Colwell Jr., head of the ORNL graphic arts department, died August 16 at the University of Tennessee Hospital in Knoxville.

A 30-year Carbide employee, Mr. Colwell was a member of Trinity Uni-

ted Methodist Church of Oak Ridge. He was a World War II veteran of the U.S. Army Air Force.

Survivors include his wife, Betty Lou, of 111 Middlebury Road, Oak Ridge; two sons, Curtis L. and Daniel S., both of Oak Ridge; a brother, Gene T.; three sisters, Mary V. Roberts, Doris S. Weir and Jo Anne Curtis; and one granddaughter.

Graveside services were held at Oak Ridge Memorial Park. Any memorial contributions may be made to the American Cancer Society, c/o Mrs. Eugene McClanahan, 408 Greenwood Drive, Clinton; or to Trinity United Methodist Church, 320 Robertsville Road, Oak Ridge.

UNION CARBIDE

Published every other week for employees such as:



Gene R. Miller, Plant Engineering, Paducah.

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ORGDP
Ruby A. Miller, 574-8092

PADUCAH
Darlene M. Mazzone, Bell 208

INTERNATIONAL ASSOCIATION OF BUSINESS COMMUNICATORS

Recent Retirements



Harold E. Wetton
Cascade Operations
Paducah
29 years service



Dave S. Tipton Jr.
Material Transfer
& Packing
Y-12
27 years service



Clinton A. Queen
Material Transfer &
Packing
Y-12
30 years service



John W. Shipley Jr.
Material Specimen
Shop
Y-12
35 years service



Tennyson Mack
Biology
ORNL
30 years service



Edward D. Allen
H-1 Foundry
Y-12
28 years service



John D. Cambell
Welding Inspection
Y-12
30 years service



James H. Oxendine
Analytical Chemistry
ORNL
25 years service



Ruby Sharp
Employee Relations
ORNL
32 years service



Paul R. Kuehn
Solid State
ORNL
35 years service



Dave Clark
Industrial Safety and
Applied Health Physics
ORNL
31 years service



Ralph Green
Energy
ORNL
36 years service



Margaret R. Bussey
Industrial Safety and
Applied Health Physics
ORNL
25 years service



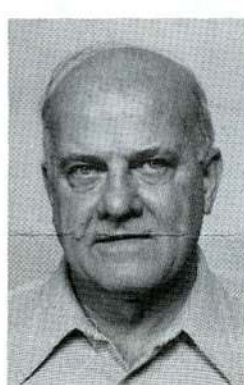
Noah L. Ensor
Biology
ORNL
37 years service



Leon White
Maintenance
ORGDP
36 years service



Andrew D. Hill Sr.
Separation Systems
ORGDP
35 years service



Harry S. Weglicki
Shift Superintendents
Paducah
38 years service



Donald A. Gordanier
Analytical Laboratory
Paducah
33 years service



James O. Keeling
Compressor Shop
Paducah
20 years service



Robert E. Elkins
Converter Shop
Paducah
14 years service



Robert G. Orrison
Engineering
ORGDP
38 years service

Y-12 Laboratory lists promotions



Cannon



Stepp

The Plant Laboratory in Y-12 has announced the promotion of Nell G. Cannon and Helen S. Stepp.

Cannon has been named a supervisor in the environmental laboratory. A native of Paducah, she has a BS from Murray State University. She worked in the TNT Laboratory at Paducah before joining Y-12 in 1946. Cannon lives in Clinton.

Stepp, a native of Lake City, has been promoted to a supervisor in the radiochemistry laboratory. She

joined Union Carbide 25 years ago, working in Y-12 for Tennessee Eastman two years during World War II. Stepp and her husband, Robert, live at 108 Albright Road, Oak Ridge. They have two sons.

Traffic advisory

Improvements to the "Y" intersection of Highways 58 and 95, announced in the June 4 issue of **Nuclear Division News**, are currently under way.

The construction will permit traffic to and from Highways 95 and 58 to continue without having to stop or cross traffic flows. It is scheduled for completion in about two years.

Although the construction is not expected to cause major disruption to normal traffic flow, employees are advised to plan their schedules to allow time for possible delays during peak traffic hours, especially in the mornings.

Savings Plan-Personal Investment Account

	Fixed Income Fund	UCC Stock	Equity Investment Fund
December 76	13.0553	59.2723	8.8166
December 77	14.2017	40.9096	8.0427
April 81	19.0386	59.2476	12.8204
May 81	19.1882	56.0036	12.9300
June 81	19.3391	58.6257	12.7942
July 81	19.4914	57.6093	12.8188

Note: Fixed Income Fund unit values reflect interest additions to achieve the guaranteed effective annual interest rate of 9.75% for 1981. Union Carbide stock values are the average cost of stock purchased during the month. Equity Investment Fund unit values represent the month-end market value of securities held by the Fund. The price of each unit is determined by dividing the total value of the securities by the number of units in the Fund.

RSCC offers fall course at Y-12 Plant

A Roane State Community College course, Industrial Hazards, will be offered at the Y-12 Plant North Portal this fall. The course, which will focus on the requirements and demands for an efficient, safe industrial environment, will be held each Thursday evening from 6:30 to 9:15 beginning September 24.

Topics will include fire and safety

hazards, accident prevention programs current health and safety regulations. Robert J. O'Laughlin of the Engineering Division at Y-12 will serve as instructor.

Registration materials or additional information may be obtained by calling Roane State at 354-3000. Registration concludes September 22.

Jones to devote retirement to artistic endeavors

Some artists are inspired by animals, some by flowers and others by people they have met or experiences they have had. Still others get their inspiration from reading about the lives of people who lived long ago. Ruby L. Jones, secretary in ORGDP Maintenance Division, is one of those. "Many of my paintings are done after I've read a western novel, like *Wild West*. I try to capture the people and environments of time past," she explained.

'To be good enough to be accepted in a reputable gallery.'

A self-taught painter, Jones began her expression on canvas about eight years ago. At that time, her main goal was "to become good enough to be accepted in a reputable gallery." She attained that goal in 1979 when her work was exhibited in the Converse Galleries, Issaquah, Wash. Her paintings are now located in art galleries in Knoxville, Gatlinburg and Aiken, S.C.

Jones got an even bigger treat recently when she received her personal copy of the 1981-82 edition of *American Artists of Renown*. Although the book contains biographical information on 2500 artists, Jones is among only 185 artists whose work is featured. One of her favorite paintings, "Li'l Angler," appears on page 109 of the book.

To exhibit next month in Dallas show

The next big showing of Jones' work will be at an art show next month. Her painting, "The Saddle Shop" will be auctioned in Dallas, Tex., as part of the "Art about Town" fund-raiser sponsored by the Society for Crippled Children for the local children's hospital. "It is quite an honor to be asked to donate a piece of art to this auction. It is *the* art event of



OPEN EXHIBIT — Ruby Jones displays some of her oil paintings at her home. Her bicentennial print, "Lincoln's Frontier," rests on the easel, and "Girl Blowing Bubbles" and a snow scene are on the ground.

the year in Dallas. Paintings are contributed by well-known artists, like G. Harvey, and last year more than \$134,000 was raised."

Although she does some western art, Jones also enjoys painting landscapes with children. She has done in-depth study of artists from the Hudson River School — her favorites are Doughty, Cole and Inness — and their influence is apparent in her work.

Jones works almost exclusively with oil on linen, but occasionally uses watercolor or mixed media, in warm, natural shades. Besides stretching her own canvas, with help from her husband, she custom mats

and frames each painting. During the bicentennial, she reproduced, signed and numbered 600 copies of a print titled "Lincoln's Frontier."

One painting that Jones will probably never sell or attempt to paint again is her "Silver Pot." It depicts a silver tea pot on a tray with muted flowers, fruit and nuts in the background. "Metals are much more difficult to paint, and that takes away some of the enjoyment," Jones explained.

She is a member of the Tennessee Artists, and is founder of Artists Diversified in Lenoir City.

After August, Jones will have more time to devote to her favorite hobby. She retires from ORGDP with almost 32 years of company service. In addition to "painting on location" (mainly on the Tennessee River), she plans to put on canvas her memories of the old Lenoir City High School, which is being torn down.

Save Energy / Share the Ride

ORNL

JOIN CAR POOL from Lenoir City/Martell area, to any portal, 8-4:30 shift. Alan Krichinsky, plant phone 4-6931; home phone Lenoir City 986-5077.

RIDE NEEDED from Oak Ridge Highway between Karns and Solway to East Portal, 8:15-4:45. Peterson, plant phone 4-4483; home phone 690-3989.

VAN POOL RIDERS NEEDED from Maryville, Friendsville or Lenoir City. Low monthly, weekly and daily rates. Call 4-3121 or 983-9160.

NEED TWO CAR POOL MEMBERS from Fountain City/Norwood areas to East Portal, 8-4:30. Bobbie Roth, plant phone 4-5433; home phone 688-3926.

VAN POOL RIDERS from West Knoxville to ORNL, 8-4:30 shift. Mike Caldwell, plant phone 4-8855, home phone Knoxville 691-4194.

Y-12 PLANT

RIDE or JOIN CAR POOL from Kingston, Bonnyview Avenue, to East Portal, 8-4:30 shift. Howard L. Horne, plant phone 6-0517; home phone Kingston 376-7960.

RIDE NEEDED from Wright Road or Oak Ridge Highway, Karns, to North Portal, 7:30-4. E. G. Laggis, plant phone 4-1966; home phone 947-6408.

BUS RIDERS NEEDED from Alcoa Highway. Low monthly, weekly and daily rates. Call 4-3121 or 983-9160.

ORGDP

RIDE wanted from Eatons Cross Roads area to Portals 4 or 5; 8-4:30 shift. Paul Rutter, work phone 4-8297; home phone 986-9796.

Patent

Walter J. Lackey, Robert S. Lowrie and John D. Sease, all of ORNL, for "Gas Scrubbing Liquids."



FEATURED IN BOOK — "Li'l Angler," a farm scene done in soft shades of brown, blue, green and yellow, appears in the 1981-82 edition of *AMERICAN ARTISTS OF RENOWN*.

Final Softball League standings

The Snakes, the Hooters, the K-Traitors, the Skins, Red Eye Gravy and the Screwballs all came up victors in the six-division Softball League recently, ending summer play for 1981.

Tournament results will be announced in the next issue.

Final league standings:

Atomic League - North Division

Name	Won	Lost
Snakes	11	0
Bruins	9	1
B. T. Express	7	2
Blue Demons	6	4
Thunderdogs	5	5
Critical Pits	4	6
Prime Time Players	4	6
Gashouse Gang	3	5
Hustlers	4	7
Millipore Fielders	4	7
Infra Red Sox	4	7

Atomic League - South Division

Name	Won	Lost
The Hooters	10	1
The Warriors	9	2
Scattered Bats	7	3
Ole Rough & Ready	6	3
Magnum Force '81	7	4
G-Shifters	5	4
Artie's Army	5	6
Rangers	4	6
Bengals	3	6
Short Circuits	3	7
Tasmanian Devils	2	5
Nomads	1	8
Preston Pirates	0	9

Carbon League - East Division

Name	Won	Lost
K-Traitors	12	1
Fes-Kids	11	2
Pirates	9	2
Bareskins	7	5
His & Hers	7	5
QA&I	5	6
Bear Creek Allstars	5	6
Waggin Tongue	5	6
Streakers	4	8
Sluggers	3	8
Wizards	2	8
Ball Bangers	2	8
Forty-Niners	2	9

Carbon League - West Division

Name	Won	Lost
Red Eye Gravy	12	0
Pits	10	2
Ad-Libs	8	3
Bits & Pieces	7	4
Sharks	7	5
Dazed & Confused	7	5
Odds & Ends	6	6
Whirlybirds	6	6
Tail-Gators	5	7
Canberras	4	7
Carbonated Gators	3	9
Seven + Three	0	11

Carbon League - Bush Division

Name	Won	Lost
Screwballs	13	0
Stonefingers	10	3
Mert Dirt	6	4
Trailer Kids	7	5
The Loose Balls	7	5
U.S.A.	5	4
Cow Patties	7	6
Jack's Jocks	5	6
"H" Bombs	5	6
Mug Huggers Ltd.	4	6
Pro-Fusion	3	7
Gauss House Gang	3	7
Super-Subs	2	9
Three Up Three Down	1	10

Carbon League - Central Division

Name	Won	Lost
Skinks	12	0
Tom's Turkeys	10	2
Master Batters	8	4
Ringers	8	4
Crippled Turkeys	7	4
Foul Play	5	5
Killer Bees	5	5
P.O.I.	4	8
Knockers	4	8
Bombers	3	8
Tapeworms	3	8
Fed I	3	8
Altered States	2	10

September 25 date for UCRA picnic

The Union Carbide Retirees Association picnic-reunion is set for Friday, September 25, at the Clark Center Recreation Park from 10 a.m. to 4 p.m. The event is open to all Carbide retirees and spouses, and a special invitation has been extended to recent retirees. You do not have to be a member of UCRA to attend.

A special feature will be a display of "treasures." A treasure is defined as anything unusual and interesting, such as a childhood toy, a carving, a foreign coin or whatever you have managed to keep through the years. The treasures will be displayed under the large shelter.

A lunch of hamburger, potato chips, coffee, tea and ice cream sandwich will be served for 50¢ each. Only those on special diets will need to bring food.

The K-25 Credit Union will furnish prizes for the event and drawing will be held immediately following the 11:45 lunch. Y-12's Credit Union has provided 1982 calendar/appointment booklets to be distributed at the welcome station. (ORNL's Credit Union will provide boxed ballpoint pens to the bridge participants.)

Winners in the 1981 UCRA Golf League will receive their awards at the picnic.

The hole-in-one golf contest will be held again, and more musicians will be around to entertain and play for the sing-along.

Monday Mixed...

The JW's are the new leaders in the Carbide Monday Mixed League, rolling past the Lucky Strikes. T. Peek posted high series, rolling a 626 scratch total. Walt Muenzer posted a fine 233 game. Ruth Hardin rolled a 557 scratch series, a 204 game.

Retirees planning bowling organization

An organizational meeting for the Carbide Retirees Bowling League will be held Thursday, September 3, at 2:30 p.m. at the Senior Center. League will begin at 1 p.m. Monday, September 14, at the Tri-County Lanes in Oliver Springs. Teams are requested to appear at 12:30 for the first day of rolling.

All present league members and those wanting to join are urged to attend. Those unable to be there may call in their desire to bowl by phoning George Bullock, 482-3765; M. J. Gibson, 457-6627; or the UCRA telephone, 576-1786.

ORGDP Hootenanny-Barbecue planned at Park with activities for everyone



THAT SMARTS — Butch Brabson, ORGDP's Fabrication and Maintenance, will demonstrate some karate punches at the big ORGDP Hootenanny-Barbecue set Saturday, September 12, at the Clark Center Recreation Park.

The big day for ORGDP employees and retirees is set for Saturday, September 12, at the Clark Center Recreation Park. A day of excitement is planned, ranging from martial arts exhibitions to arts and crafts shows to bluegrass music, as the 18th annual Hootenanny-Barbecue gets under way.

There will be the usual horse-shoes, basketball, volleyball, shuffle board, putting contest and the annual softball tournament. There is a multitude of activities planned for the children as well.

The total cost is \$3 per adults, \$1.50 for children, which includes the barbecue and other good food.

Butch Brabson, Fabrication and Maintenance; and William Faulkner, Operations; will be among the four black belts showing off the karate styles. A 71-year-old Filipino, Florendo Visitacion, will also demonstrate some of the ancient karate moves.

Tickets are on sale throughout the plant. Retirees may obtain tickets through Virginia Donahoe, 576-1786.

18TH ANNUAL K-25 BAR-B-QUE

HOOTENANNY

CLARK CENTER RECREATION PARK Saturday, September 12, 1981



**ACTIVITIES START
AT 1:00 P.M.**

**Adults - \$3.00
Children - \$1.50**

Fixin's Will Be Served From 5-6 p.m.



Bar-B-Que, Hot Dogs, Baked Beans
Coleslaw, Potato Chips, Soft Drinks,
Coffee, Tea



GENERAL ENTERTAINMENT

Blue Grass Band
Softball Tournament - Mixed*
Games For Children
Games For Adults

SPECIAL ATTRACTIONS

Arts & Crafts Show
52-Ton Army Tank
R2-D2 Robot
Karate Five Association With
Three Grand Masters

*Contact DODE GORDON at 4-9171 if you plan to participate in the MIXED SOFTBALL TOURNAMENT.

Family Mixed...

The Oops team still holds a fair lead in the Carbide Family Bowling League, five points away from the Pensetters. Mary Johnson took women's honors recently, rolling a 212 game, 250 handicap single and a

handicap series of 623. Tillie Plaza posted a 511 scratch series. Gene Hawkins posted a 233, 258 single; a series of 582 scratch; only to be nosed out in handicap series by Ray Eskridge, who rolled a 672.

Joint Institute utilizes energy-saving features

ORNL now has its first on-site office/sleeping facility for outside research visitors.

The new Joint Institute for Heavy Ion Research, located adjacent to the Holifield Heavy Ion Research Facility, not only provides accommodations for visiting Holifield researchers but also is itself the subject of a research and demonstration project on innovative architectural approaches to energy conservation.

The Institute is the subject of a research and demonstration project on innovative architectural approaches to energy conservation.

Funded jointly by ORNL, the University of Tennessee and Vanderbilt University, the structure now is complete except for certain weather monitoring equipment to be installed later this year.

Hanna Shapira, of the Energy Division's research staff, is the building's architect and interior decorator. Among the energy-saving concepts in the design, perhaps the most obvious is a mound of earth that covers the building's roof and north side and partially covers its east and west sides. The reduction in heat loss through the walls as a result of the earth's temperature moderation effects will be complemented by energy gained through less conspicuous, passive solar features. These include large, south-facing windows protected by an overhang positioned so that sunlight can enter the windows in winter but not in summer when the sun's rays strike at a different angle.

Among the energy-saving concepts in the design, perhaps the most obvious is a mound of earth that covers the building's roof and north side.

Beneath some windows is a massive "Trombe wall" of solid concrete covered with a highly absorbent black paint. In the winter, the heat absorbed in the daytime provides warmth for the building at night. Hinged metal doors can be closed to cover the wall and block the heat absorption during summer months.

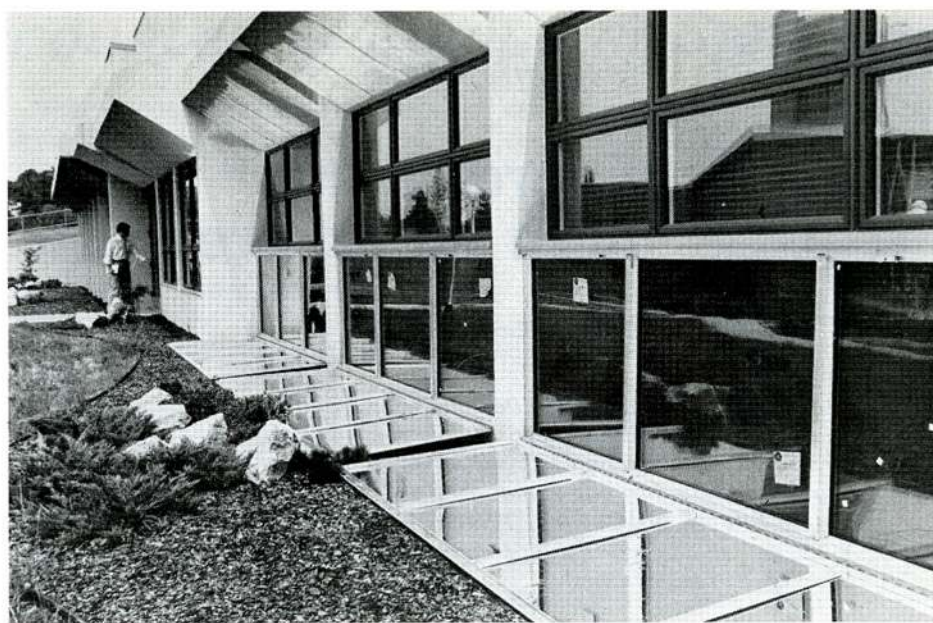
Soon to be mounted are the reflective insulating blinds designed by Shapira and Randy Barnes, of the Energy Division's engineering staff. Resembling venetian blinds, they are made from curved slats of plastic foam insulation sandwiched between aluminum sheets. When

open at the proper angle, the blinds reflect sunlight to the ceiling, where the solar heat is absorbed and later radiated to the room as the building cools. When closed at night, the blinds are window insulators.

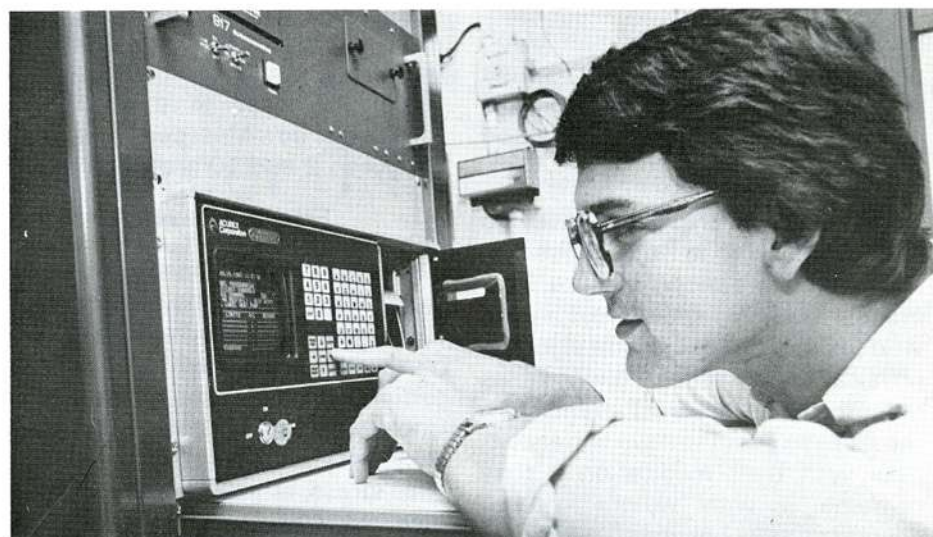
These various energy-saving features are expected to reduce energy consumption about 70 percent over a conventional above-ground structure.

Preliminary evidence indicates that in addition to reducing dependence on artificial lighting, the blinds will minimize problems associated with direct-gain space heating, such as glare and uneven room temperatures. They also will prove economical on most windows, reducing nighttime heating loss in winter and cutting air-conditioning loads in summer.

Collectively, these various energy-saving features are expected to reduce energy consumption about 70 percent over a conventional above-ground structure. A heat-loss-and-gain monitoring program recently completed will provide detailed data on the building's energy-conserving performance.



While lying flat, metal doors reflect sunlight into a heat-conducting "Trombe wall" located beneath the windows. When no additional heating is needed, the door can be raised to cover the Trombe wall and stop its heat absorption.



Mike N. Smith, summer co-op student in the Physics Division, checks monitoring equipment connected to heat sensors throughout the Institute.



Windows on the building's south side are shaded by overhangs positioned at angles that prohibit sunlight from entering the building in summer months.



Medicine Chest

Exercise and high blood pressure

by T. A. Lincoln, M.D.

(Editor's Note: Dr. Lincoln alternates his regular column with "The Medicine Chest," where he answers questions from employees concerning health in general. Questions are handled in strict confidence, as they are handled in our Question Box. Just address your question to "Medicine Chest," NUCLEAR DIVISION NEWS, Building 9704-2, Stop 21, Y-12, or call the news editor in your plant, and give him or her your question on the telephone.)

QUESTION: Regular exercise seems to be important in the prevention of heart attacks, but I haven't heard much about its use in the prevention or treatment of high blood pressure. A friend has high blood pressure and has been told he must get regular exercise. How does exercise help to prevent high blood pressure?

ANSWER: A precise answer to your question is not possible, because no one knows for sure. Several studies have shown that people who participate regularly in vigorous physical exercise have fewer cases of high blood pressure. Patients with the disease seem to have better success with their medication if they combine it with weight control, decreased salt consumption and regular exercise.

Vigorous exercise

Vigorous exercise is usually accompanied by profuse perspiration, even in cold weather. In the summer, water loss due to perspiration can be excessive. Marathon runners often will lose a liter of perspiration per hour, and it is possible to lose as much as eight pounds of body weight per hour.

Large amounts of salt can be lost from the body during such periods of perspiration. Salt, or more particularly the sodium in salt, is an important factor in high blood pressure. Individuals who add extra salt to their food place a heavier burden on their kidneys, which must struggle to excrete the excess. An inability to keep things in balance may lead to high blood pressure.

Heat and salt loss

When one is subjected to extremely warm and humid weather without air conditioning, a great deal of salt is lost in perspiration. As the body becomes accustomed to the hot weather, the amount of sodium lost is greatly reduced. During the first couple of weeks, some 15 to 20 grams of salt can be lost per day. After four or five weeks of exposure to almost continuous hot weather, the salt loss rate will drop to only three to five grams per day.

If one consumes the usual American diet with all its salty goodies like

potato chips, salted peanuts, cookies, pretzels and just plain good food, he or she will get plenty of salt. The minimum salt requirement for a normally active adult in a temperate climate is only one gram per day. When it is extremely hot, the minimum requirement increases to three to four grams per day. Most people consume between 2 and 10 grams per day.

Effects of exercise

How does exercise affect this system? During jogging, for example, one's sweat glands have to respond suddenly. The body temperature quickly rises, and perspiration increases as the body attempts to lower its own temperature. During this stress, large amounts of sodium are lost, and the sweat glands don't have time to adjust. The stress is brief, and the sodium loss probably is at a relatively constant rate. Such perspiration reduces the chronic surplus of salt most people have in their bodies. Jogging, then, is like taking a diuretic and purging one's system of excess sodium.

It has been suggested that frequent vigorous exercise helps a person reduce the salt-regulating burden on the kidneys. If a person with an inherited tendency to high blood pressure eats the usual amount of salt, he or she might eventually develop permanent high blood pressure. If the person exercised regularly and perspired profusely, he or she would be less likely to chronically overload the kidneys and might thereby prevent the development of the disease.

How about using saunas? The same profuse perspiration and loss of sodium probably occur; however, the physical conditioning and other circulatory benefits are clearly missing. The Finns, at least, think it helps keep them healthy.

Do joggers who run every day become accustomed to the stress of running and lose less sodium in their perspiration after a few weeks? I was unable to determine whether such a test has been done, but it would be interesting. If this phenomenon does not occur, the theory that exercise prevents high blood pressure by causing an increased sodium loss in perspiration would certainly be attractive.



Y-12 UNITED WAY COMMITTEE — As the 1981 United Way campaign gets under way, Y-12 has announced its officials for the campaign. In the front row from left are Joyce F. Grubb, associate chairman representing the Guard Union; Jeanne D. Moody, solicitor training; Daniel G. Ailey, treasurer; and Donna J. Gray, assistant treasurer. Standing are Roy Pruett, publicity; Ronnie Jeffers, campaign materials; Charlie Robinson, associate chairman representing the Atomic Trades and Labor Council; Harry L. Bailey, chairman; and Charles W. Holland, co-chairman.

Changes in Computer Sciences

(Continued from page 1)

Sullivan served two years in the U.S. Army and is a member of the Association for Computing Machinery. He lives on West Outer Drive in Oak Ridge with his wife, Irene, and their two sons.

Leinius first joined the Nuclear Division as a programmer at ORNL in 1962. Following a leave of absence (1965-69) to complete graduate work, he returned to ORNL in the Systems Department, Mathematics Division, in 1969. He had served as head of the Systems Support Department since 1973.

A native of Mandan, N.D., Leinius received his BS degree from Dickinson State College and his MS from Kansas State University, both in mathematics. In 1969, he received the PhD in computer sciences from the University of Wisconsin.

As manager for Computer Systems Support, Leinius is responsible for user services and the technical support and development of computer hardware and software systems. He

is a member of the Association for Computing Machinery and the Institute of Electronic and Electrical Engineers' Computer Group.

Leinius and his wife, Marion, live on Miramar Circle, Oak Ridge. They have three children.

Whitesides, manager of Technical Applications, is responsible for the technical and scientific programming and analysis work being performed by the Computer Sciences organization.

A native of Lincolnton, N.C., Whitesides holds a bachelor's degree in nuclear engineering from North Carolina State University. He joined the Computing Technology Center at ORGP in 1960 and had served as head of the Nuclear Engineering Department in Computer Sciences since 1970.

He is a fellow of the American Nuclear Society. Whitesides and his wife, Jo Ann, have two children. They live on Lakewood Road in Kingston.

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